

# VU Research Portal

## In vivo quantification of proliferation and glucose metabolism in lung cancer patients

Frings, V.

2014

### **document version**

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

### **citation for published version (APA)**

Frings, V. (2014). *In vivo quantification of proliferation and glucose metabolism in lung cancer patients*. [PhD-Thesis - Research and graduation internal, Vrije Universiteit Amsterdam].

### **General rights**

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal ?

### **Take down policy**

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

### **E-mail address:**

[vuresearchportal.ub@vu.nl](mailto:vuresearchportal.ub@vu.nl)

# CONTENTS

CHAPTER 1	Introduction and outline	13
CHAPTER 2	Methodological considerations in quantification of 3'-deoxy-3'-[ <sup>18</sup> F]fluorothymidine uptake measured with positron emission tomography in patients with non-small cell lung cancer. <i>Mol Imaging Biol.</i> 2014 Feb;16(1):136-45	27
CHAPTER 3	Pemetrexed induced thymidylate synthase inhibition in non-small cell lung cancer patients: a pilot study with 3'-deoxy-3'-[ <sup>18</sup> F]fluorothymidine positron emission tomography. <i>PLoS ONE.</i> 2013 May;24:8(5):e63705	53
CHAPTER 4	Assessment of simplified methods to measure 3'-deoxy-3'-[ <sup>18</sup> F]fluorothymidine uptake changes in EGFR mutated non-small cell lung cancer patients undergoing EGFR tyrosine kinase inhibitor treatment. <i>J Nucl Med.</i> 2014 in press	79
CHAPTER 5	Repeatability of metabolically active volume measurements with [ <sup>18</sup> F]FDG and [ <sup>18</sup> F]FLT PET in non-small cell lung cancer. <i>J Nucl Med.</i> 2010 Dec;51(12):1870-7	101

CHAPTER 6	Repeatability of metabolically active tumor volume measurements with FDG PET/CT in advanced gastrointestinal malignancies: a multicenter study. <i>Radiology. 2014 May;26:132807</i>	123
CHAPTER 7	General discussion and future perspectives	149
ADDENDUM	List of abbreviations	171
	Dutch summary	175
	Acknowledgements	181
	Curriculum vitae	187
	List of publications	189